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Jameco Part Number 211115 (SPU65P10C)

SU65P SERIES
65 WATT SWITCHING POWER SUPPLIES

UNIVERSAL INPUT

FEATURES

- Recognized or certified by UL/CSA/TÜV & CE marked to LVD
- Small size, light weight
- Wide input range 85 to 264 VAC
- Input surge current protection
- Overvoltage & overcurrent protection
- Open PCB construction, L-bracket or box optional
- 100% burn-in

DESCRIPTION

The SU65P series of compact, open PCB constructed, AC-DC switching power supplies are capable of delivering 50 to 65 watts of continuous output power. They operate at 85 to 264 VAC input voltage without the need of voltage selection. They are ideally suited for use in today's CRT terminals, disk drive systems, small microprocessor based systems, portable equipment and many other applications. All models meet the safety requirements of UL, CSA and IEC.

INPUT SPECIFICATIONS

Input Voltage:	85 to 264 VAC
Input Frequency:	47 to 63Hz
Input Current:	1.60A (rms) for 115 VAC
	1.00A (rms) for 230 VAC
Leakage Current:	0.47mA max. at 110 VAC, 60Hz
	0.85mA max. at 230 VAC, 50Hz

GENERAL SPECIFICATIONS

Switching Frequency:	32kHz ± 5kHz
Efficiency:	70% min. on single output models with Vo ≥ 12V, 65% minimum on all others
Hold-up Time:	10mS min. at 110 VAC
Line Regulation:	± 0.5% max. at full load
Inrush Current:	15 amps at 115 VAC
(at 25°C cold start)	30 amps at 230 VAC
Withstand Voltage:	3000 VAC input to output
	1500 VAC input to ground
	500 VAC output to ground
MTBF (25°C ambient):	400,000 hours min. full load
EMI Requirements:	In compliance with CISPR 22 (EN 55022) Class B and FCC Class B
Safety Requirements:	Meets or exceeds:
	UL 1950
	CSA C22.2 No. 950
	EN 60950/IEC 950

OUTPUT SPECIFICATIONS

Output Voltage/Current:	See Rating Chart
Total Output Power:	65 watts maximum
Ripple and Noise:	1% peak to peak max.
Overvoltage Protection:	Provided on output #1 only; set at 112-132% of its nominal output voltage
Overcurrent Protection:	All outputs protected to short circuit conditions
Temp. Coefficient:	All outputs, ± 0.04%/°C max.
Transient Response:	Maximum excursion of 4% or better on all models, recovering to 1% of final value within 500µs after a 25% step load change

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:	0°C to +70°C
Storage Temperature:	-40°C to +85°C
Relative Humidity:	5% to 95% non-condensing
Derating:	Derate from 100% at +50°C linearly to 50% at +70°C

E135662 LR81336 R9172041 (LVD)

FORTRON/SOURCE

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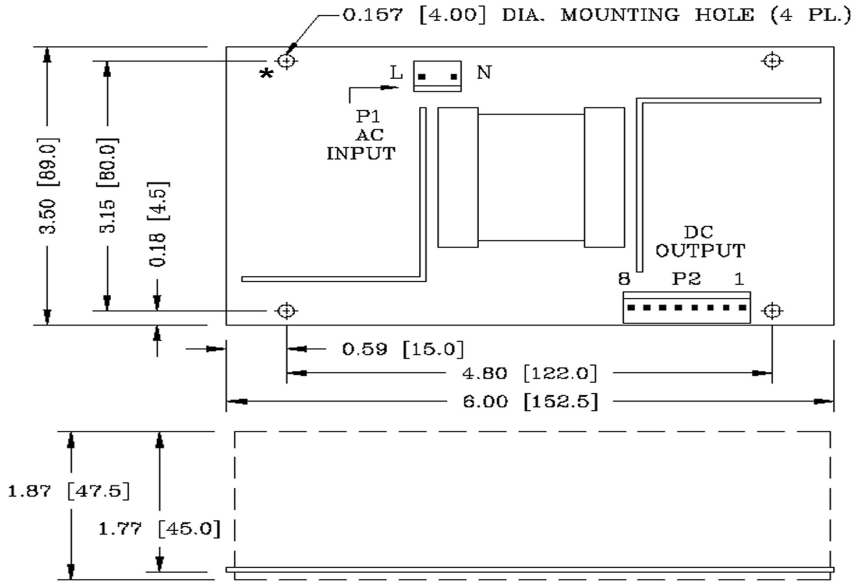
UNIVERSAL INPUT SU65P SERIES

Model	Output #1				Output #2				Output #3				Output #4				Max.
	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Power
SU65P10	5V	0A	10A	2%			(N/A)				(N/A)				(N/A)		50W
SU65P12	12V	0A	5.5A	1%			(N/A)				(N/A)				(N/A)		65W
SU65P13	15V	0A	4.5A	1%			(N/A)				(N/A)				(N/A)		65W
SU65P14	24V	0A	3.0A	1%			(N/A)				(N/A)				(N/A)		65W
SU65P23	+5V	1A	6.0A	3%	+12V	0.5A	3.0A	5%			(N/A)				(N/A)		65W
SU65P24	+5V	1A	6.0A	3%	+15V	0.4A	3.0A	5%			(N/A)				(N/A)		65W
SU65P25	+5V	1A	6.0A	3%	+24V	0.3A	2.0A	5%			(N/A)				(N/A)		65W
SU65P30	+5V	1A	6.0A	3%	+12V	0.5A	3.0A	5%	-5V	0.1A	0.5A	10%			(N/A)		65W
SU65P31	+5V	1A	6.0A	3%	+12V	0.5A	3.0A	5%	-12V	0.1A	0.5A	10%			(N/A)		65W
SU65P32	+5V	1A	6.0A	3%	+15V	0.4A	3.0A	5%	-15V	0.1A	0.5A	10%			(N/A)		65W
SU65P33	+5V	1A	6.0A	3%	+15V	0.4A	3.0A	5%	-12V	0.1A	0.5A	10%			(N/A)		65W
SU65P35-1	+5V	1A	6.0A	3%	+24V	0.3A	1.2A	5%	-24V	0.2A	1.0A	10%			(N/A)		65W
SU65P39	+5V	1A	6.0A	3%	+24V	0.3A	2.0A	5%	-12V	0.1A	0.5A	10%			(N/A)		65W
SU65P40	+5V	1A	6.0A	3%	+12V	0.5A	3.0A	5%	-12V	0.1A	0.5A	10%	-5V	0.1A	0.50A	10%	65W
SU65P45-1	+5V	1A	6.0A	3%	+15V	0.2A	1.0A	5%	+25V	0.1A	0.75A	10%	-12V	0.1A	1.0A	10%	65W

Notes: (1) All multi-output units may be operated at no load without damage; no load output voltage tolerance increases to 10%.
(2) Safety agency approvals are for the above listed models in PCB format. To order a model with a metallic L-bracket or box, add suffix "B" for L-bracket format or "C" for enclosed format to the model number e.g. SU65P25C.

MECHANICAL SPECIFICATIONS



Notes:
1. Dimensions shown in inch (mm)
2. Tolerance 0.02 (0.5) maximum
3. Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal
4. Output connector mates with Molex housing 09-50-3081 and Molex 2878 series crimp terminal
5. Weight: 400 grams (PCB format)
6. The "*" marked mounting hole is for system grounding through a metallic stand-off to the system chassis.

PIN CHART

MODEL \ PIN	1	2	3	4	5	6	7	8
SU65P10 SU65P12 SU65P13 SU65P14	Output #1	Output #1	Output #1	Output #1	Return	Return	Return	Return
SU65P23 SU65P25 SU65P24	Output #1	Output #1	Common Return	Common Return	Output #2	Output #2	N.C.	N.C.
SU65P30 SU65P31 SU65P32 SU65P33 SU65P35-1 SU65P39	Output #1	Output #1	Common Return	Common Return	Output #2	Output #2	Output #3	N.C.
SU65P40 SU65P45-1	Output #1	Output #1	Common Return	Common Return	Output #2	Output #2	Output #3	Output #4

Note: All data are subject to change without notice

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